FIIG A104

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FEDERAL ITEM IDENTIFICATION GUIDE SPARK PLUGS

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This Federal Item Identification Guide for Supply Cataloging is issued under the authority of Department of Defense Instruction 5025.7.

The use of this publication is mandatory for US. Federal Activities participating in Federal Catalog System Operations.

BY ORDER OF THE DIRECTOR

/s/

Commander

Defense Logistics Information Service

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GENERAL INFORMATION

1. Purpose and Scope

This Federal Item Identification Guide (FIIG) is a self-contained document for the collection, coding, transmittal, and retrieval of item characteristics and related supply management data for an item of supply for logistical use. This FIIG is to be used to describe items of supply identified by the index of approved item names appearing in this section.

2. Contents

This FIIG is comprised of the following:

Index of Approved Item Names Covered by this FIIG

Applicability Key Index

Section I - Item Characteristics Data Requirements

Section III - New text that should be here.

Appendix A - Reply Tables

Appendix B - Reference Drawing Groups (as applicable)

Appendix C - Technical Data Tables (as applicable)

a. Index of Approved Item Names Covered by this FIIG:

The index lists the approved item names with definitions and item name codes as they appear in Cataloging Handbook H6, applicable to this FIIG. In addition, each name entry is assigned an applicability key for use in relating the characteristics requirements in Section I to the specific item name.

b. Applicability Key Index:

The purpose of this index is to provide the user with a ready reference for determining the specific requirements which are applicable to a given approved item name. This index lists all requirements in sequence as they appear in the FIIG. The applicability of a Master Requirement Coded requirement is indicated by the column headed by the specific item name applicability key as follows:

- (1) The letter "X" indicates the requirement must be answered for a full descriptive item.
- (2) The letters "AR" indicate the requirement is to be answered as required by (1) instructional notes within the FIIG; (2) when the reply is predicated on replies to a related main requirement; or (3) when an asterisk (*) is used in conjunction with the applicability key column in Section I.
- (3) A blank in the column indicates the requirement is not applicable to the specific item name.

c. Section I - Item Characteristics Data Requirements:

This section contains the physical and performance characteristics requirements needed to describe and identify an item of supply. These characteristics differentiate one item from all other items of supply and are to be used to meet the needs of all supported functions. This section is arranged in columns. Identification of each column and instructions pertinent thereto are as follows:

(1) Applicability Key:

The first column shows the applicability key(s) for each requirement. It indicates whether the requirement need be satisfied for the item being identified. "ALL" indicates that the requirement must be answered for all items covered by the FIIG. One or more alphabetic character(s) or group of one or more alphabetic characters indicates a response is required when describing items with an approved item name or names represented by the key(s). An asterisk (*) used in conjunction with any applicability key indicates that the characteristic stated in the requirement may not be applicable to all items covered by the FIIG.

(2) Master Requirement Codes (MRC):

A four-position code which is assigned to a FIIG requirement for identification of the requirement, cross-referencing requirements in the various sections and appendices of the FIIG, and for mechanized processing and retrieval of FIIG generated data. Absence of a MRC for a requirement indicates a lead-in to requirements with individual MRCs in Appendix B.

(a) The coding technique for providing MULTIPLE/OPTIONAL responses will not be used for a Section I requirement assigned Mode Code A or L that leads to Appendix B sketches with dimensional requirements.

(b) Identified Secondary Address Coding:

This technique is for extending the Master Requirement Code so that a unique address is provided for each application of the requirement in relation to the item and is authorized only as instructed within the requirement. Responses coded through this technique will always consist of the following: (1) Master Requirement Codes, (2) indicator code (a single numeric character determined by the number of positions contained), (3) identified secondary address code (1 to 3-digit alphabetic codes determined by the number of predicted replies), (4) the mode code, (5) the reply code and/or clear text response, and (6) end with a record separator (*). Steps (1) through (6) are repeated for each application of the requirement.

(c) AND/OR coding:

A technique for extending the Master Requirement Code to provide a distinctive address for multiple responses to the same requirement. Responses coded through this technique will always consist of (1) Master Requirement Code, (2) mode code, (3) the response or reply code (as instructed by the requirement), (4) a single dollar sign (\$) for an OR condition, or a double dollar sign (\$\$) for an AND condition, (5) the mode code, (6) the response or reply code

(followed by conditions (4) through (6) for each of the multiple responses) and (7) end with a record separator (*). NOTE: Apply this technique only when instructed by the requirement sample reply (e.g.).

(3) Mode Code:

A one-position alphabetic code that specifies the manner in which a response will be prepared. Each requirement assigned a MRC is also assigned a mode code. Sample replies follow each FIIG requirement displaying the proper construction of a response for the assigned mode code. The response to a requirement will always be prepared in accordance with the assigned mode code and sample reply except in the following instances:

- (a) Use of E Mode Code replies is not authorized. If a reply needed to describe an item is not listed in the applicable table, contact the FIIG Initiator.
- (b) Mode Code K may not be used for any requirement unless instructed by the requirement instructions.

(4) Requirement:

This portion includes the characteristics data elements and data use identifiers required to identify and differentiate one item of supply from another, narrative definitions, and explanations as to use and method of expression. Instructions for coding and preparing replies are also provided.

(5) Reply Code:

A code that represents an established authorized reply to a requirement.

d. Section III - Supplementary Technical and Supply Management Data:

This section includes those characteristics requirements necessary to support specific logistics functions other than National Stock Number assignment.

e. Appendix A - Reply Tables:

Tables of authorized replies to requirements and reply codes when the tables are too lengthy for inclusion in Section I/III, when applicable.

f. Appendix B - Reference Drawings:

This appendix contains representative illustrations which portray specific variations of one or more generic characteristics. If reference drawings contain requirements pages to be used in conjunction with illustrations for dimensioning purposes, the requirements pages will contain Master Requirement Codes, mode codes, and a statement of the requirement. A response to requirements on a requirements page is necessary only for those Master Requirement Codes applicable to the illustration selected.

g. Appendix C - Technical Data Tables:

This appendix contains conversion charts and similar data pertinent to the requirements in Section I/III, when applicable.

3. Enter administrative MRC CLQL immediately following the last FIIG requirement reply, as instructed below:

<u>MRC</u>	Mode Code	Requirement	<u>Example</u>
CLQL	G	COLLOQUIAL NAME (common usage name by which an item is known)	CLQLGWOVEN WIRE CLOTH*

- 4. Special Instructions and Indicator Definitions
 - a. Measurements:

Unless otherwise indicated within a requirement example, enter all measurements in decimal form, carried to the nearest three decimal places, with a minimum of one digit preceding the decimal. For SI (metric), enter all measurements with a minimum of one digit before and after the decimal. For fraction to decimal conversion, see Appendix C.

b. Indicators:

A cross hatch (#) following an AIN, MRC, Reply Code or Drawing Number indicates for "ALL EXCEPT USA" use only.

5. Indexes

a. Index of Data Requirements

This index is arranged in alphabetic sequence by Master Requirement Code, cross-referenced to the applicable data requirement and page number(s).

b. Index of Approved Item Names

This index is arranged in alphabetic sequence referenced to Applicability Key.

c. Applicability Key Index

This index is arranged in Applicability Key Sequence.

6. Maintenance

Requests for revisions and other changes will be directed to:

FIIG A104 GENERAL INFORMATION SECTION I/III REQUIREMENTS INDEX

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INDEX OF APPROVED ITEM NAMES COVERED BY THIS FIIG

Approved Item Name	<u>INC</u>	App Key
SPARK PLUG	00294	A

An item containing two or more electrodes across which an electric spark is discharged to ignite a fuel and air mixture, primarily in internal combustion engines. Excludes GLOW PLUG and ELECTRODE.

FIIG A104 GENERAL INFORMATION APPLICABILITY KEY INDEX

APPLICABILITY KEY INDEX

	<u>A</u>
NAME AAQL AATR # AHPM ASDB AYGH AYGJ AYGK AYGL AYGM AYGN AYGP	X X AR AR AR AR AR AR AR AR
AYGA	X
AYGB	X
AYGF	AR
AFYV	AR
CTTM#	X
ALBY	X
CBBL	AR
FEAT	AR
TEST	AR
SPCL	AR
ZZZK	AR
ZZZT	AR
ZZZW	AR
ZZZX	AR
ZZZY	AR
CRTL PRPY ELRN ELCD AJAF	AR AR AR AR
AJAG BBRG AFJQ AFJK BBRJ AFJN	AR AR AR AR AR
AKDA	AR
PRMT	AR
PMWT	AR
PMLC	AR
SUPP	AR
ZZZP	AR
ZZZV	AR
AGAV	AR
RDAL	AR
CXCY	AR

FIIG A104 GENERAL INFORMATION APPLICABILITY KEY INDEX

HZRD AR

SECTION I

APP Mode

Key MRC Code Requirements

ALL

NAME D ITEM NAME

Definition: A NOUN, WITH OR WITHOUT MODIFIERS, BY WHICH AN ITEM OF SUPPLY IS KNOWN.

Reply Instructions: Enter the applicable Item Name Code. (e.g., NAMED00294*)

ALL

AAQL L BODY STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE BODY.

Reply Instructions: Enter the applicable group designator and style number from Appendix B, Reference Drawing Group A. (e.g., AAQLLA1*)

ALL

AYGA L ELECTRODE STYLE

Definition: THE STYLE DESIGNATION INDICATING THE CONFIGURATION THAT MOST NEARLY CORRESPONDS TO THE APPEARANCE OF THE ELECTRODE.

Reply Instructions: Enter the applicable group designator and style number from Appendix B, Reference Drawing Group B. (e.g., AYGALB1*)

ALL

AYGB H THREAD SIZE AND SERIES/TYPE DESIGNATOR AND LOCATION

Definition: DESIGNATES THE THREAD DIAMETER, SERIES/TYPE, AND NUMBER OF THREADS PER MEASUREMENT SCALE, AND THE LOCATION.

Reply Instructions: Enter the applicable Reply Codes from <u>Appendix A</u>, Table 2, and the table below. (e.g., AYGBHAACAAX*). For multiple replies use AND (\$\$) Coding (e.g., AYGBHAANAAX\$\$HAAPATS*).

APP Mode

Key MRC Code Requirements

REPLY CODE AAX BASE SHIELDING

ALL*

AYGF J MEAN EFFECTIVE PRESSURE RATING

Definition: THE AVERAGE EFFECTIVE PRESSURE RATING FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AYGFJVA130.0*; AYGFJVB130.0\$\$JVC150.0*)

Table 1

REPLY CODE REPLY (AB18)

F BAR

K KILOGRAMS PER SQUARE CENTIMETER N NEWTONS PER SQUARE CENTIMETER

V POUNDS PER SQUARE INCH

Table 2

REPLY CODE
A NOMINAL
B MINIMUM
C MAXIMUM

ALL*

AFYV J DC RESISTANCE RATING IN OHMS

Definition: THE OPPOSITION TO THE FLOW OF DIRECT CURRENT OFFERED BY AN ITEM, EXPRESSED IN OHMS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFYVJA100.0*; AFYVJB7500.0\$\$JC12500.0*)

REPLY CODE
A NOMINAL
B MINIMUM
C MAXIMUM

APP Mode

Key MRC Code Requirements

ALL

CTTM # J HEAT RATING CLASSIFICATION AND TEST METHOD

Definition: THE NUMERIC CLASSIFICATION OF THE THERMAL VALUE ASSIGNED TO THE ITEM AND THE TEST METHOD.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., CTTMJEQX175*)

REPLY CODE REPLY (AJ50)
EQW BERU
EQX BOSCH

ALL

ALBY D USAGE DESIGN

Definition: INDICATES THE DESIGNED USE OF THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., ALBYDAGJ*)

REPLY CODE AGJ REPLY (AH21)
AIRCRAFT ENGINE

AMX ENGINE OTHER THAN AIRCRAFT

NOTE FOR MRCS CBBL AND FEAT: E MODE CODE REPLIES WILL NOT BE ACCEPTED IN REPLY TO MRC CBBL. IF A REPLY IS NOT REFLECTED ON THE TABLE FOR MRC CBBL, ENTER THE FEATURE IN REPLY TO MRC FEAT.

ALL* (See Note Above)

CBBL D FEATURES PROVIDED

Definition: THOSE FEATURES, NOT OTHERWISE SPECIFIED, WHICH MAY BE REQUIRED FOR PROPER FUNCTIONING OF THE ITEM.

APP Mode

Key MRC Code Requirements

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., CBBLDAPA*; CBBLDBMR\$\$DBMS*)

REPLY CODE REPLY (AN47)

BMZ AUXILIARY/BOOSTER/SERIES GAP

BMR BALL TYPE ADAPTER
BMY GAP SET/GAUGE TOOL
APB # KNURLED TERMINAL NUT
BMW MASSIVE CENTER ELECTRODE

BMX PLUG SEAT GASKET

BMT REGULAR TERMINAL NUT

APA # SNAP ON SLEEVE BMS WATERPROOF

ALL * (See Note Preceding MRC CBBL)

FEAT G SPECIAL FEATURES

Definition: THOSE UNUSUAL OR UNIQUE CHARACTERISTICS OR QUALITIES OF AN ITEM NOT COVERED IN THE OTHER REQUIREMENTS AND WHICH ARE DETERMINED TO BE ESSENTIAL FOR IDENTIFICATION.

Reply Instructions: Enter the reply in clear text. Separate multiple replies with a semicolon. (e.g., FEATGADJUSTABLE NOSE CLIP*; FEATGADJUSTABLE NOSE PIECE; DISPOSABLE*)

ALL *

TEST J TEST DATA DOCUMENT

Definition: THE SPECIFICATION, STANDARD, DRAWING, OR SIMILAR INSTRUMENT THAT SPECIFIES ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS OR TEST CONDITIONS UNDER WHICH AN ITEM IS TESTED AND ESTABLISHES ACCEPTABLE LIMITS WITHIN WHICH THE ITEM MUST CONFORM IDENTIFIED BY AN ALPHABETIC AND/OR NUMERIC REFERENCE NUMBER. INCLUDES THE COMMERCIAL AND GOVERNMENT ENTITY (CAGE) CODE OF THE ENTITY CONTROLLING THE INSTRUMENT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the 5-position CAGE Code, a dash, and the document identification number.

(e.g., TESTJA12345-CWX654321*;

APP Mode

Key MRC Code Requirements

TESTJA1234A-654321\$\$JB5556A-663654*;

TESTJAA2345-654321\$JB55566-663654*)

REPLY REPLY (AC28)
CODE
C DRAWING (This contractor drawin

DRAWING (This is the basic governing drawing, such as a contractor drawing, original equipment manufacturer drawing, etc.; excludes any specification, standard, or other document that may be referenced in a basic governing

drawing)

A SPECIFICATION (Includes engineering type bulletins, brochures, etc., that reflect specification type data in specification format; excludes commercial catalogs, industry directories, and similar trade publications, reflecting general type data on certain environmental and performance requirements and test conditions that are shown as "typical," "average," "nominal," etc.)

B STANDARD (Includes industry or association standards,

individual manufacturer standards, etc.)

ALL *

SPCL G SPECIAL TEST FEATURES

Definition: TEST CONDITIONS AND RATINGS, OR ENVIRONMENTAL AND PERFORMANCE REQUIREMENTS THAT ARE DIFFERENT, MORE CRITICAL, OR MORE SPECIFIC THAN THOSE SPECIFIED IN A GOVERNING TEST DATA DOCUMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SPCLGSELECTED AND TESTED FOR NAVIGATIONAL SYSTEMS*)

ALL *

ZZZK J SPECIFICATION/STANDARD DATA

Definition: THE DOCUMENT DESIGNATOR OF THE SPECIFICATION OR STANDARD WHICH ESTABLISHED THE ITEM OF SUPPLY.

APP Mode
Key MRC Code Requirements

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the Commercial and Government Entity (CAGE) Code of the entity controlling the document, a dash, and the document designator. The agency that controls the limited coordination document must be preceded and followed by a slash following the designator. The word canceled or superseded must be preceded and followed by a slash for the designator. Professional and industrial association specifications/standards are differentiated from a manufacturer's specification in that the data has been coordinated and published by the professional and industrial association. Include amendments and revisions where applicable.

(e.g., ZZZKJT81337-30642B*;

ZZZKJS81349-MIL-D-180 REV1/CANCELED/*;

ZZZKJP80205-NAS1103*;

ZZZKJS81349-MIL-C-1140C/CE/*;

ZZZKJT81337-30642B\$\$JP80205-NAS1103*)

<u>REPLY</u>	REPLY (AN62)
CODE	
S	GOVERNMENT SPECIFICATION
T	GOVERNMENT STANDARD
D	MANUFACTURERS SOURCE CONTROL
R	MANUFACTURERS SPECIFICATION
N	MANUFACTURERS SPECIFICATION CONTROL
M	MANUFACTURERS STANDARD
\boldsymbol{B}	NATIONAL STD/SPEC
A	PROFESSIONAL/INDUSTRIAL ASSOCIATION
	SPECIFICATION
P	PROFESSIONAL/INDUSTRIAL ASSOCIATION
	STANDARD

NOTE FOR MRC ZZZT: IF THE SPECIFICIATION/STANDARD CITED IN REPLY TO MRC ZZZK IS NONDEFINITIVE, REPLY TO MRC ZZZT. THIS REPLY IS THE DATA WHICH IS NOT RECORDED IN SEGMENT C.

ALL* (See Note Above)

ZZZT J NONDEFINITIVE SPEC/STD DATA

APP Mode

Key MRC Code Requirements

Definition: THE NUMBER, LETTER, OR SYMBOL THAT INDICATES THE TYPE, STYLE, GRADE, CLASS, AND THE LIKE, OF AN ITEM IN A NONIDENTIFYING SPECIFICATION OR STANDARD.

Reply Instructions: Enter the applicable Reply Code from <u>Appendix A</u>, Table 1, followed by the appropriate number, letter, or symbol. (e.g., ZZZTJTY1*; ZZZTJTY1\$\$JSTA*; ZZZTJTY1\$JSTA*)

ALL *

ZZZW G DEPARTURE FROM CITED DOCUMENT

Definition: THE TECHNICAL DIFFERENTIATING CHARACTERISTIC(S) OF AN ITEM OF SUPPLY WHICH DEPART(S) FROM THE TEXT OF A SPECIFICATION OR A STANDARD IN THAT IT REPRESENTS A SELECTION OF CHARACTERISTICS STATED IN THE SPECIFICATION OR STANDARD AS BEING OPTIONAL, OR A VARIATION FROM ONE OR MORE OF THE STATED CHARACTERISTICS, OR AN ADDITIONAL CHARACTERISTIC NOT STATED IN THE SPECIFICATION OR STANDARD.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZWGAS MODIFIED BY MATERIAL*)

ALL *

ZZZX G DEPARTURE FROM CITED DESIGNATOR

Definition: THE VARIATION WHEN THE ITEM IS IN CONFORMITY WITH A TYPE DESIGNATOR COVERED BY A SPECIFICATION OR STANDARD, EXCEPT IN REGARD TO ONE OR MORE TECHNICAL DIFFERENTIATING CHARACTERISTICS.

Reply Instructions: Enter the reply in clear text. (e.g., ZZZXGAS MODIFIED BY MATERIAL*)

ALL *

ZZZY G REFERENCE NUMBER DIFFERENTIATING CHARACTERISTICS

Definition: A FEATURE OF THE ITEM OF SUPPLY WHICH MUST BE SPECIFICALLY RECORDED WHEN THE REFERENCE NUMBER COVERS A RANGE OF ITEMS.

APP Mode

Key MRC Code Requirements

Reply Instructions: Enter the reply in clear text. (e.g., ZZZYGCOLOR CODED LEADS*; ZZZYGAS DIFFERENTIATED BY MATERIAL*)

ALL *

CRTL A CRITICALITY CODE JUSTIFICATION

Definition: THE MASTER REQUIREMENT CODES OF THOSE REQUIREMENTS WHICH ARE TECHNICALLY CRITICAL BY REASON OF TOLERANCE, FIT, PERFORMANCE, OR OTHER CHARACTERISTICS WHICH AFFECT IDENTIFICATION OF THE ITEM.

Reply Instructions: Enter the Master Requirement Code for the requirement, the reply to which renders the item as being critical. (e.g., CRTLAMATL*; CRTLAMATL\$\$ASURF*)

Reply to this requirement only if the header record for the item identification for the item being identified has been coded as critical.

NOTE FOR MRC PRPY: IF DOCUMENT AVAILABILITY CODE B, D, F, OR H, REPLY TO MRC PRPY.

ALL * (See Note Above)

PRPY A PROPRIETARY CHARACTERISTICS

Definition: IDENTIFICATION OF THOSE CHARACTERISTICS INCLUDED IN THE DESCRIPTION FOR WHICH A NON-GOVERNMENT ACTIVITY HAS IDENTIFIED ALL OR SELECTED CHARACTERISTICS OF THE ITEM AS BEING PROPRIETARY AND THEREFORE RESTRICTED FROM RELEASE OUTSIDE THE GOVERNMENT WITHOUT PRIOR PERMISSION OF THE ORIGINATOR OF THE DATA.

Reply Instructions: Enter the MRC codes of the individual characteristics of the description which are marked proprietary on the technical data, using AND coding (\$\$) for multiple characteristics. If all the MRCs are proprietary, enter the reply PACS. If none of the MRCs is proprietary, enter the reply NPAC. (e.g., PRPYAPACS*; PRPYANPAC*; PRPYAMATL\$\$ASURF*)

ALL *

ELRN G EXTRA LONG REFERENCE NUMBER

Definition: A REFERENCE NUMBER EXCEEDING 32 POSITIONS.

APP Mode

Key MRC Code Requirements

Reply Instructions: Enter the entire reference number. Do not include the 5-position Commercial and Government Entity (CAGE) Code. (e.g., ELRNGANN112036BIL060557LEN0313605UZ062365*)

In determining quantity of characters in the reference number, count will be made after modification in accordance with Volume 2, Chapter 9, FLIS Procedures Manual, DoD 4100.39-M.

ALL *

ELCD D EXTRA LONG CHARACTERISTIC DESCRIPTION

Definition: A DESCRIPTION THAT EXCEEDS 5000 CHARACTERS.

Reply Instructions: Enter the Reply Code from the table below. (e.g., ELCDDA*)

REPLY (AN58)

CODE A

ADDITIONAL DESCRIPTIVE DATA ON MANUAL

RECORD

SECTION III

APP

Key MRC Mode Code Requirements

ALL

AJAF J UNPACKAGED UNIT LENGTH

Definition: A MEASUREMENT OF THE LONGEST DIMENSION OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING, IN DISTINCTION FROM WIDTH.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJAFJAA3.38*; AJAFJLA6.3*; AJAFJAB1.75\$\$JAC1.78*)

Table 1

REPLY CODE REPLY (AA05)

APP Key	MRC	Mode Code	Requirements	
		A	INCHES	
		L	MILLIMETERS	
		Table 2 REPLY CODE A B C	REPLY (AC20) NOMINAL MINIMUM MAXIMUM	

ALL

AJAG J UNPACKAGED UNIT WIDTH

Definition: A MEASUREMENT TAKEN AT RIGHT ANGLES TO THE LENGTH OF AN ITEM UNENCUMBERED BY PACKAGING OR PACKING, IN DISTINCTION FROM THICKNESS.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., AJAGJAA1.25*; AJAGJLA6.3*; AJAGJAB1.63\$\$JAC1.67*)

REPLY CODE	REPLY (AA05)
A	INCHES
L	MILLIMETERS
Table 2	
REPLY CODE	REPLY (AC20)
A	NOMINAL
В	MINIMUM
C	MAXIMUM

ALL

BBRG D STORAGE TYPE

Table 1

Definition: THE TYPE OF STORAGE SPACE REQUIRED FOR AN ITEM IN ORDER TO PROVIDE THE DEGREE OF PROTECTION NECESSARY TO MAINTAIN SERVICEABILITY STANDARDS.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., $BBRGDAE^\ast;BBRGDAD\$DAM^\ast)$

Key	MRC	Mode Code	Requirements
1XC y	WIINC	Mode Code	requirements

REPLY CODE	REPLY (AM81)
AC	CLOSED SHED
AD	CONTROLLED HUMIDITY WAREHOUSE
AM	DEHUMIDIFIED WAREHOUSE
AE	GENERAL PURPOSE WAREHOUSE
AN	HEATED WAREHOUSE
AH	OPEN SHED
AR	SHED
AJ	UNHEATED WAREHOUSE

ALL

AFJQ J STORAGE TEMP RANGE

Definition: THE MINIMUM AND MAXIMUM TEMPERATURES AT WHICH AN ITEM CAN BE STORED WITHOUT DETRIMENTAL EFFECT.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric values. Precede negative values with an M and positive values with a P. (e.g., AFJQJFM50.0/P212.0*)

REPLY CODE	REPLY (AB36)
C	DEG CELSIUS
F	DEG FAHRENHEIT

ALL

AFJK J CUBIC MEASURE

Definition: A MEASUREMENT OF VOLUME TAKEN BY MULTIPLYING THE LENGTH BY THE WIDTH BY THE HEIGHT OF AN ITEM AND RENDERED IN CUBIC UNITS.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the numeric value. (e.g., AFJKJB10.25*; AFJKJC6.1*)

REPLY CODE	<u>REPLY (AD42)</u>
C	CUBIC CENTIMETERS
D	CUBIC DECIMETERS
F	CUBIC FEET
В	CUBIC INCHES
E	CUBIC METERS

APP

Key MRC Mode Code Requirements

ALL

BBRJ D SPECIAL HANDLING FEATURE

Definition: THE UNUSUAL OR UNIQUE CHARACTERISTIC(S) OR QUALITY(IES) OF AN ITEM WHICH NECESSITATES THE ESTABLISHMENT OF A REQUIREMENT FOR SPECIAL HANDLING.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., BBRJDAE*; BBRJDAE\$\$DAK*)

REPLY CODE	REPLY (AM83)
AB	CORROSIVE
AE	FRAGILE
AK	MAGNETIC

ALL

AFJN D FRAGILITY FACTOR

Definition: THE MEASURE OF SENSITIVITY OF THE ITEM TO BE PACKAGED. A FACTOR USED BY PACKAGING ENGINEERS IN DEVISING PROPER CUSHIONING IN A PACKAGE.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., AFJNDE*)

REPLY CODE	<u>REPLY (AD40)</u>
D	DELICATE
В	EXTREMELY FRAGILE
E	MODERATELY DELICATE
F	MODERATELY RUGGED
G	RUGGED
C	VERY DELICATE

NOTE FOR MRC AKDA: REPLY TO THIS MRC IF DESIGNED FOR A SINGLE APPLICATION.

ALL (See Note Above)

AKDA G SPECIFIC ENGINE APPLICATION

APP

Key MRC Mode Code Requirements

Definition: THE SPECIFIC ENGINE FOR WHICH THE ITEM IS DESIGNED.

Reply Instructions: Enter the manufacturer's name, item name, model number, and serial number range. (e.g., AKDAGFORD MOTOR CO., ENGINE, GASOLINE, MODEL NO. 8NA12003, 111256 THROUGH 249933*)

ALL

PRMT D PRECIOUS MATERIAL

Definition: IDENTIFICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., PRMTDAGA000*; PMTDAUA000\$\$DAGA000*; PRMTDAGA000\$DAUA000*)

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

PMWT J PRECIOUS MATERIAL AND WEIGHT

Definition: AN INDICATION OF THE PRECIOUS MATERIAL CONTAINED IN THE ITEM, AND THE AMOUNT PER A MEASUREMENT SCALE.

Reply Instructions: Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. Enter multiple replies in Table 1 sequence. (e.g., PMWTJPTA000R0.780*; PMWTJAUA000F0.500\$\$JAGA000R0.780*)

Table 1	
REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM

Α	١.	P	F

Key MRC Mode Code Requirements

> AGA000 SILVER

Table 2

REPLY CODE REPLY (AG14) E GRAINS, TROY R **GRAMS** F **OUNCES, TROY**

ALL

PMLC J PRECIOUS MATERIAL AND LOCATION

Definition: AN INDICATION OF THE PRECIOUS MATERIAL AND ITS LOCATION IN THE ITEM.

Reply Instructions: Enter the applicable Reply Code from the table below, followed by the location in clear text. (e.g., PMLCJAUA000TERMINALS*; PMLCJAUA000TERMINALS\$\$JAGA000INTERNAL SURFACES*;

PMLCJAGA000TERMINALS\$JAUA000INTERNAL SURFACES*)

REPLY CODE	REPLY (MA01)
AUA000	GOLD
IRA000	IRIDIUM
AZA000	OSMIUM
PDA000	PALLADIUM
PTA000	PLATINUM
RHA000	RHODIUM
RTA000	RUTHENIUM
AGA000	SILVER

ALL

G SUPP SUPPLEMENTARY FEATURES

Definition: CHARACTERISTICS OR QUALITIES OF AN ITEM, NOT COVERED IN ANY OTHER REQUIREMENT, WHICH ARE CONSIDERED ESSENTIAL INFORMATION FOR ONE OR MORE FUNCTIONS EXCLUDING NSN ASSIGNMENT.

Reply Instructions: Enter the reply in clear text. (e.g., SUPPGMAY INCL HOLE IN UPPER SUPPORT FOR MTG DURING SHIPMENT*)

ALL

APP

Key MRC Mode Code Requirements

ZZZP J

PURCHASE DESCRIPTION IDENTIFICATION

Definition: THE CONTROLLING ACTIVITY AND IDENTIFICATION OF A DOCUMENT USED IN LIEU OF A SPECIFICATION IN THE PROCUREMENT OF AN ITEM OF SUPPLY.

Reply Instructions: Enter the 5-position Commercial and Government Entity (CAGE) Code, followed by a dash and the identifying number of the document.

(e.g., ZZZPJ81A37-30624A*)

ALL

ZZZV G FSC APPLICATION DATA

Definition: THE JUSTIFICATION FOR THE ASSIGNMENT OF A FEDERAL SUPPLY CLASS (FSC) TO AN ITEM BASED ON THE CLASSIFICATION OF THE NEXT HIGHER CLASSIFIABLE ASSEMBLY.

Reply Instructions: Enter the name of the next higher classifiable assembly in clear text. (e.g., ZZZVGFUEL SYSTEM, GASOLINE ENGINE, NONAIRCRAFT*)

ALL

AGAV G END ITEM IDENTIFICATION

Definition: THE NATIONAL STOCK NUMBER OR THE IDENTIFICATION INFORMATION OF THE END EQUIPMENT FOR WHICH THE ITEM IS A PART.

Reply Instructions: Enter the reply in clear text.

(e.g., AGAVG3930-00-000-0000*;

AGAVGFORKLIFT TRUCK, SMITH CORPORATION, MODEL 12, TYPE A*)

ALL

RDAL G REFERENCE DATA AND LITERATURE

Definition: LITERATURE AND REFERENCES AVAILABLE FOR INFORMATION PERTAINING TO THE ITEM.

Reply Instructions: Enter data appropriate and in a concise manner to identify informational references covering the item.

(e.g., RDALGT.0. 2J-F100, FIG 3, INDEX 12*)

APP Key	MRC	Mode Code	Requirements
ALL			
	CXCY	G	PART NAME ASSIGNED BY CONTROLLING AGENCY

Definition: THE NAME ASSIGNED TO THE ITEM BY THE GOVERNMENT AGENCY OR COMMERCIAL ORGANIZATION CONTROLLING THE DESIGN OF THE ITEM.

Reply Instructions: Enter the reply in clear text. (e.g., CXCYGLINE PROCESSOR CONTROL BOARD*)

ALL

HZRD D HAZARDOUS SUBSTANCES

Definition: THE SUBSTANCES AND/OR MATERIALS CONTAINED IN THE ITEM THAT HAVE BEEN IDENTIFIED AS HAZARDOUS OR ENVIRONMENTALLY DAMAGING BY THE ENVIRONMENTAL PROTECTION AGENCY OR OTHER AUTHORIZED GOVERNMENT AGENCY.

Reply Instructions: Enter the applicable Reply Code from the table below. (e.g., HZRDDHAZ027 *)

REPLY CODE REPLY (HZ00)
HAZ027 IRIDIUM

Reply Tables

Table 1 - NONDEFINITIVE SPEC/STD DATA	26
Table 2 - THREAD SIZE AND SERIES/TYPE DESIGNATORS	28

Table 1 - NONDEFINITIVE SPEC/STD DATA

REPLY CODE	REPLY (AD08)
AL	ALLOY
AN	ANNEX
AP	APPENDIX
AC	APPLICABILITY CLASS
AR	ARRANGEMENT
AS	ASSEMBLY
AB	ASSORTMENT
BX	BOX
CY	CAPACITY
CA	CASE
CT	CATEGORY
CL	CLASS
CE	CODE
CR	COLOR
CC	COMBINATION CODE
CN	COMPONENT
CP	COMPOSITION
CM	COMPOUND
CD	CONDITION
CS	CONSTRUCTION
DE	DESIGN
DG	DESIGNATOR
DW	DRAWING NUMBER
EG	EDGE
EN	END
FY	FAMILY
FG	FIGURE
FN	FINISH
FM	FORM
FA	FORMULA
GR	GRADE
GP	GROUP
BA	IMAGE COLOR
NS	INSERT
TM	ITEM
KD	KIND
KT	KIT
LG	LENGTH
LT	LIMIT
MK	MARK
AA	MARKER
ML	MATERIAL
BB	MAXIMUM DENSITY
MH	MESH
ME	METHOD

REPLY CODE	· · · · · · · · · · · · · · · · · · ·
BC	MINIMUM DENSITY
MD	MODEL
MT	MOUNTING
NR	NUMBER
PT	PART
PN	PATTERN
PC	PHYSICAL CONDITION
PS	PIECE
PL	PLAN
PR	POINT
QA	QUALITY
RN	RANGE
RT	RATING
RF	REFERENCE NUMBER
SC	SCHEDULE
SB	SECTION
SL	SELECTION
SE	SERIES
SV	SERVICE
SX	SET
SA	SHADE
SH	SHAPE
SG	SHEET
SZ	SIZE
PZ	SPECIES
SQ	SPECIFICATION SHEET
SD	SPEED SPEED
ST	STYLE
SS	SUBCLASS
SF	SUBFORM
SP	SUBTYPE SUBEACE CONDITION
SN	SURFACE CONDITION
SY	SYMBOL
SM	SYSTEM
TB	TABLE
TN	TANNAGE
TP	TEMPER
TX	TEXTURE
TK	THICKNESS
TT	TREATMENT
TR	TRIM
TY	TYPE
YN	UNIT
VA	VARIETY
WT	WEIGHT
WD	WIDTH

Table 2 - THREAD SIZE AND SERIES/TYPE DESIGNATORS

REPLY CODE	REPLY (AM59)
AAP	1-1/8-12 UNF
AAH	1/2-14 NPT
AAF	1/4-32 UNEF
AAL	3/4-14 NPT
AAM	3/4-20 UNEF
AAG	3/8-24 UNF
AAJ	5/8-24 UNEF
AAN	7/8-18 UNS
AAK	9/16-27 UNS
AAB	10-1.0 MM
AAC	12-1.25 MM
AAD	14-1.25 MM
AAR	16-1.0 MM
AAE	18-1.5 MM
AAS	24-1.5 MM

Reference Drawing Groups

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REFERENCE DRAWING GROUP A Tables BODY STYLES

INDEX OF MASTER REQUIREMENT CODES

Enter the applicable Reply Codes from Tables 1 and 2 below, followed by the numeric value. (e.g., ASDBJAA0.750*; ASDBJLA12.6*; ASDBJAB0.740\$\$JAC0.755*)

REPLY (AA05)

MINIMUM

MAXIMUM

A	INCHES
L	MILLIMETERS
REPLY CODE	REPLY (AC20)
KELLI CODE	KLILI (AC20)
A	NOMINAL

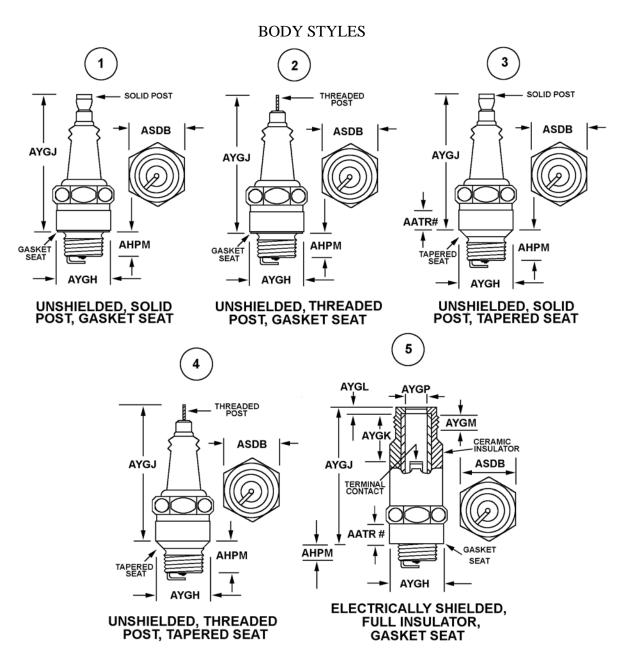
REPLY CODE

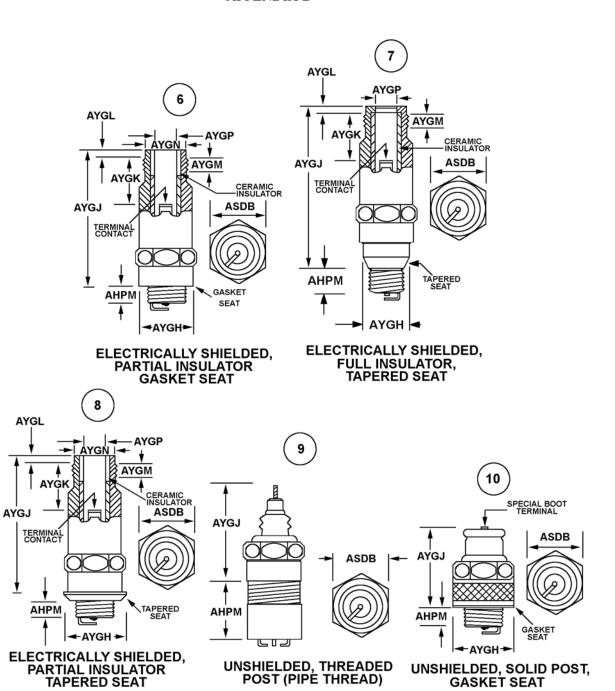
В

C

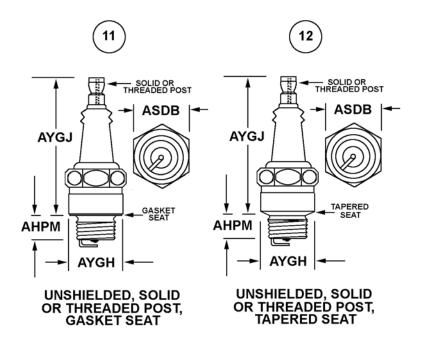
MRC	Mode Code	Name of Dimension
AATR#	J	SHANK LENGTH
AHPM	J	REACH LENGTH
ASDB	J	WIDTH ACROSS FLATS
AYGH	J	SEAT MAJOR DIAMETER
AYGJ	J	HEIGHT ABOVE MOUNTING SURFACE
AYGK	J	TOP TO TERMINAL CONTACT DISTANCE
AYGL	J	TOP TO SHIELD THREAD DISTANCE
AYGM	J	SHIELD THREAD LENGTH
AYGN	J	BARREL INSIDE DIAMETER
AYGP	J	TERMINAL SLEEVE INSIDE DIAMETER

REFERENCE DRAWING GROUP A



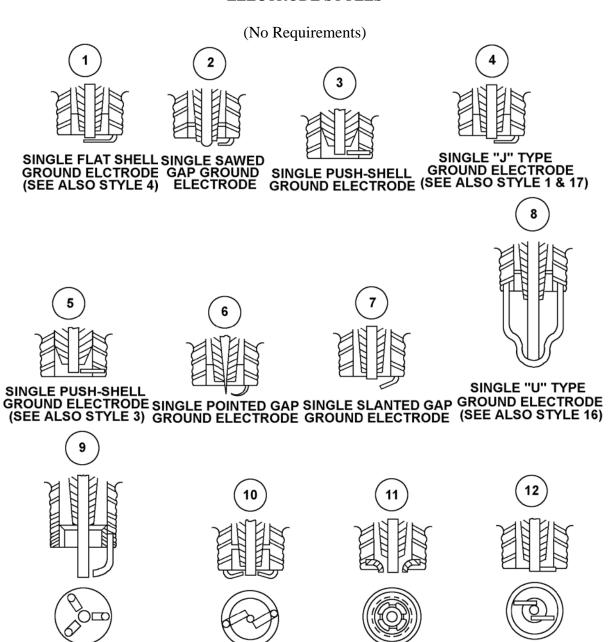


GASKET SEAT



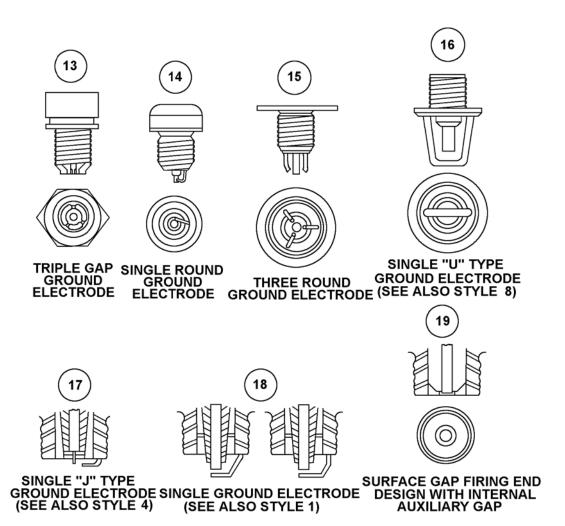
REFERENCE DRAWING GROUP B

ELECTRODE STYLES



35

THREE ROUND GROUND TWO ROUND GROUND FOUR GAP GROUND TWO FLAT GROUND ELECTRODE ELECTRODE ELECTRODE



Technical Data Tables

No table of contents entries found.

FIIG Change List

FIIG Change List, Effective August 7, 2009

Analyzed SAC Coding in FIIG and Updated to AND/OR Coding.

MRC AYGB/SAC Coding/Changed to AND Coding.